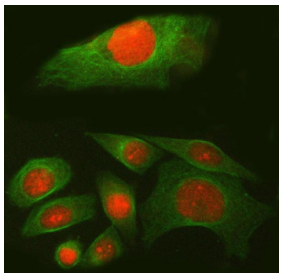
SPAG7 Antibody / Sperm-associated antigen 7 (RQ8933)

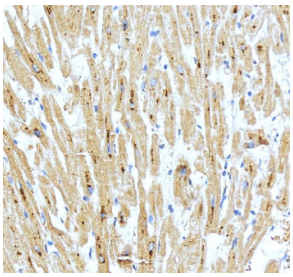
Catalog No.	Formulation	Size
RQ8933	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

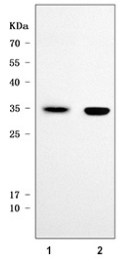
Availability	1-2 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	O75391
Localization	Nucleus
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml ELISA : 0.1-0.5ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This SPAG7 antibody is available for research use only.



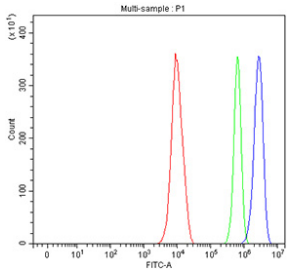
Immunofluorescent staining of FFPE human SiHa cells with SPAG7 antibody (red) and Alpha Tubulin mAb (green). HIER: steam section in pH6 citrate buffer for 20 min.



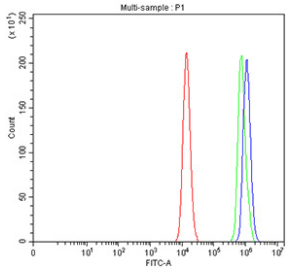
IHC staining of FFPE human heart tissue with SPAG7 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) rat skeletal muscle and 2) mouse skeletal muscle tissue lysate with SPAG7 antibody. Predicted molecular weight ~26 kDa but is commonly observed at 26-31 kDa.



Flow cytometry testing of fixed and permeabilized human PC-3 cells with SPAG7 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= SPAG7 antibody.



Flow cytometry testing of fixed and permeabilized human HCT-116 cells with SPAG7 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= SPAG7 antibody.

Description

SPAG7 (Sperm-associated antigen 7) is a cytoplasmic RNA-binding protein that plays a role in RNA processing and transport. While initially identified in the context of reproductive biology, SPAG7 is expressed in a range of tissues and is thought to participate in the regulation of RNA metabolism, including splicing and ribonucleoprotein complex formation. A SPAG7 antibody is frequently used in studies of RNA regulation, germ cell biology, and post-transcriptional gene control.

SPAG7 is localized to the cytoplasm and has been associated with RNA-binding activity that influences the stability and localization of specific transcripts. This suggests an important role in coordinating gene expression at the post-transcriptional level. Employing a SPAG7 antibody enables researchers to examine its subcellular distribution and assess its contribution to RNA-based regulatory pathways.

Although initially discovered in sperm, SPAG7 has broader biological functions beyond reproductive processes. It has been reported to interact with nuclear pore and ribonucleoprotein-associated proteins, supporting its involvement in RNA export and turnover. Altered SPAG7 expression patterns have been observed in certain pathological contexts, including cancer, where RNA regulation is frequently disrupted. Using a SPAG7 antibody provides a valuable tool to explore these potential disease associations and clarify its functional significance.

NSJ Bioreagents offers a high-quality SPAG7 antibody validated for applications such as western blot, immunohistochemistry, and immunofluorescence. Choosing a SPAG7 antibody from NSJ Bioreagents ensures consistent performance and reliable detection in studies of RNA processing, germ cell function, and molecular regulation.

Application Notes

Optimal dilution of the SPAG7 antibody should be determined by the researcher.

Immunogen

Amino acids M1-D199 from the human protein were used as the immunogen for the SPAG7 antibody.

Storage

After reconstitution, the SPAG7 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.